

REMARKS/DISCUSSION OF ISSUES

By this Amendment, Applicants amend claim 15 to correct a minor typographical error, and add claims 17-18. Accordingly, claims 1-18 are pending in the application.

Applicants thank the Examiner for acknowledging the claim for priority and receipt of certified copies of all the priority document(s).

The Examiner is respectfully requested to state whether the drawings are acceptable.

Applicants acknowledge the allowance of claims 6-8 and 14-16, and the indication that claims 4, 5, 12 and 13 define patentable subject matter and would be allowable if rewritten in independent form, including all limitations of the base claim and any intervening claims.

Reexamination and reconsideration are respectfully requested in view of the following Remarks.

35 U.S.C. § 102

The Office Action rejects claims 1-3 and 9-11 under 35 U.S.C. § 102 over Schramm U.S. Patent Publication 2002/0110138A1 ("Schramm").

Applicants respectfully traverse those rejections for at least the following reasons.

Claim 1

Among other things, the method of claim 1 includes using training symbols to derive a simplified channel estimate.

Applicants respectfully submit that Schramm does not disclose such a feature. Applicants respectfully submit that nothing in the Abstract, FIGS. 4a-b, or paragraphs [0076]-[0086 or [[0096]-[0103] discloses deriving any simplified channel estimate. Indeed, the undersigned attorney has carefully reviewed Schramm, and does not see any such feature mentioned or suggested anywhere in Schramm.

Accordingly, for at least these reasons, Applicants respectfully submit that claim 1 is patentable over Schramm.

Claims 2-3

Claims 2-3 depend from claim 1 and are deemed patentable for at least the reasons set forth above with respect to claim 1.

Claim 9

Among other things, the system of claim 9 includes means for using training symbols to derive a **simplified** channel estimate.

For similar reasons to those set forth above with respect to claim 1, Applicants respectfully submit that Schramm does not disclose such a feature.

Accordingly, for at least these reasons, Applicants respectfully submit that claim 9 is patentable over Schramm.

Claims 10-11

Claims 10-11 depend from claim 9 and are deemed patentable for at least the reasons set forth above with respect to claim 9.

NEW CLAIMS 17-18

New claim 17 depends from claim 1, and new claim 18 depends from claim 9, and therefore claims 17-18 are deemed patentable for at least the reasons set forth above with respect to claims 1 and 9, respectively, and for the following additional reasons.

In claims 17 and 18, a channel impulse response frequency matrix is calculated for each frequency bin in the frequency domain OFDM data packet assuming that all noise in the channel is white Gaussian noise with zero mean and variance.

Applicants respectfully submit that Schramm does not disclose such a feature.

Accordingly, for at least these reasons, Applicants respectfully submit that claims 17 and 18 are patentable over Schramm.


CONCLUSION

In view of the foregoing explanations, Applicants respectfully request that the Examiner reconsider and reexamine the present application, allow claims 1-18 and

pass the application to issue. In the event that there are any outstanding matters remaining in the present application, the Examiner is invited to contact Kenneth D. Springer (Reg. No. 39,843) at (571) 283.0720 to discuss these matters.

Respectfully submitted,

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